Performance Data Sheet

HGA5453BAA

General Information

Model	HGA5453BAA	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-25	Btu/h	2980			
	Watts (Power)				
	Amps	3.23			
	Lb/h	40.8			
-23.3	Btu/h	3060	3260		
	Watts (Power)				
	Amps	3.25	3.06		
	Lb/h	41.9	44.6		
-20	Btu/h	3230	3230		
	Watts (Power)				
	Amps	3.30	3.18		
	Lb/h	44.3	44.2		
-15	Btu/h	3540	3300	3440	
	Watts (Power)	100	142	189	
	Amps	3.37	3.35	3.84	
	Lb/h	48.6	45.3	47.2	
-10	Btu/h	3930	3530	3420	3630
	Watts (Power)	252	300	353	420
	Amps	3.40	3.50	4.08	4.72
	Lb/h	53.8	48.4	46.8	49.7
-6.7	Btu/h	4230	3780	3540	3560
	Watts (Power)	311	365	422	493
	Amps	3.40	3.58	4.22	4.90
	Lb/h	57.9	51.7	48.5	48.8
-5	Btu/h	4390	3930	3650	3580
	Watts (Power)	331	387	447	521
	Amps	3.40	3.61	4.28	4.99
	Lb/h	60.2	53.9	50.0	49.1
0	Btu/h	4960	4510	4140	3890
	Watts (Power)	357	422	490	572
	Amps	3.34	3.68	4.44	5.23
	Lb/h	68.0	61.8	56.7	53.2

5	Btu/h	5650	5300	4920	4560
	Watts (Power)	348	424	502	593
	Amps	3.23	3.68	4.54	5.41
	Lb/h	77.4	72.5	67.4	62.4
7.2	Btu/h	5990	5710	5350	4970
	Watts (Power)	338	419	502	597
	Amps	3.15	3.66	4.57	5.47
	Lb/h	82.1	78.2	73.3	68.1
10	Btu/h	6460	6290	5990	5610
	Watts (Power)	324	411	501	602
	Amps	3.04	3.61	4.58	5.52
	Lb/h	88.5	86.2	82.1	76.8
15	Btu/h	7430	7520	7380	7050
	Watts (Power)	305	405	506	620
	Amps	2.76	3.46	4.53	5.56
	Lb/h	102	103	101	96.6

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.329385E+03	8.256213E+01	9.058089E+00	8.671400E+01
C2	-3.083971E+01	-5.418143E+00	-1.144124E-01	-4.227636E-01
C3	-3.717263E+01	1.312225E+01	-4.406675E-01	-5.097340E-01
C4	-2.674069E+00	-7.627782E-01	-1.409118E-03	-3.663383E-02
C5	8.250653E+00	2.316831E-01	3.915409E-03	1.130377E-01
C6	-4.981996E-01	-1.825043E-01	1.039888E-02	-6.816085E-03
C7	2.007923E-02	2.567777E-02	-1.590321E-05	2.742219E-04
C8	1.664004E-01	2.558206E-03	5.362950E-06	2.279872E-03
C9	-1.020543E-01	-5.419395E-04	-2.187821E-05	-1.398216E-03
C10	7.322042E-03	1.663735E-03	-6.864061E-05	1.002569E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature